

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 60039130
PUBLICATION DATE : 28-02-85

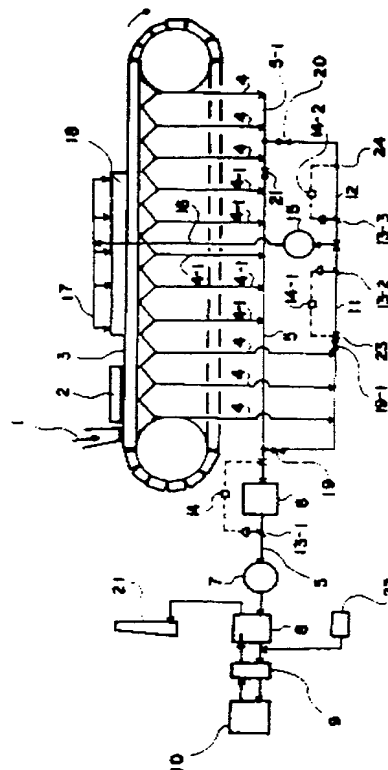
APPLICATION DATE : 12-08-83
APPLICATION NUMBER : 58146476

APPLICANT : NIPPON KOKAN KK <NKK>;

INVENTOR : OAMA MASAMI;

INT.CL. : C22B 1/20 B01D 53/36

TITLE : METHOD FOR RECOVERING LATENT
HEAT OF WASTE SINTERING GAS



ABSTRACT : PURPOSE: To recover efficiently the latent heat of waste sintering gas by separating sintering pallets, oxidizing catalytically only the waste gas contg. high- concn. CO, and utilizing the combustion heat of oxidation.

CONSTITUTION: The pallets 3 are separated in a sintering machine of an iron ore equipped with a raw material charge port 1, an ignition furnace 2, and the pallets 3, and a waste gas having $\geq 0.5\text{vol}\%$ CO concn. is sent into a CO oxidizing apparatus 9 from ducts 4-1 by a main blower 7 through a collecting duct 5, a dust collection equipment 6, and a heat exchanger 8. The CO in the waste gas is catalytically oxidized in the oxidizing apparatus 9, and the generated combustion heat of oxidation is recovered by a heat recovery equipment 10 and utilized. The waste gas after the heat recovery is discharged from a stack 21 through said CO oxidizing apparatus 9 and the heat exchanger 8. The waste gas having a low CO concn. is supplied along with combustion air to the pallets 3 by a blower 15 through the duct 4, collecting ducts 11 and 12, collecting ducts 16 and 17, and a hood 18.

COPYRIGHT: (C)1985,JPO&Japio